

In the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1.-12. (Cancelled)

11. (New) A gradient amplifier for a magnetic resonance system, the amplifier comprising:

an output stage adapted to connect to an electrical energy source;

a compensation device adapted to connect to the electrical energy source and to measure a first parameter value and to output at least one compensation signal; and

a control device,

wherein the control device accepts the at least one compensation signal as an input, and controls the output stage by a control signal output.

12. (New) The gradient amplifier of claim 11, further comprising:

a regulation system connected on an input side to the output stage and on an output side to the control device and configured to produce a regulator signal (RS);

wherein the regulator signal (RS) is a function of a second parameter value of the output stage.

13. (New) The gradient amplifier of claim 11, wherein the energy source is a voltage source, and the first parameter is an input supply voltage.

14. (New) The gradient amplifier as in claim 11, wherein the amplifier is a pulse width modulator.

15. (New) The gradient amplifier of claim 11, wherein the compensation device is operable to generate a compensation signal that is dependent on the first parameter value and on one of a nominal or a maximal value of the first parameter value.

16. (New) The gradient amplifier of claim 11, wherein the compensation device is connected on the output side to the control device or to the regulation system.

17. (New) The gradient amplifier of claim 12, further comprising:
a regulator signal amplification device connected to the regulation system,

wherein the compensation device is connected on the output side thereof to the regulator signal amplification device

18. (New) The gradient amplifier of claim 13, wherein the regulator system accepts at least one compensation signal and the regulator signal (RS) is variable as a function of the first parameter value.

19. (New) The gradient amplifier of claim 11, wherein the energy source is a voltage source, and the first parameter is an output supply voltage.

20. (New) The gradient amplifier of claim 12, wherein the second parameter value is an amplifier output voltage or a load current.

21. (New) A magnetic resonance system having a gradient amplifier, comprising:

an output stage operable to connect to an electrical energy source;

a compensation device operable to connect to the electrical energy source, to measure a first parameter value, and to output at least one compensation signal; and

a control device,

wherein the control device accepts the at least one compensation signal as an input, and controls the output stage by a control signal output.

22. (New) A method for controlling a gradient amplifier for a magnetic resonance system, the gradient amplifier having an output stage which is supplied by an electrical energy source, the method comprising:

ascertaining a first parameter value of the energy source;

generating a compensation signal as a function of the first parameter value; and

generating a control signal as a function of the compensation signal,

wherein the output stage generates an output signal as a function of the control signal.

23. (New) The method as defined by claim 22, further comprising:

ascertaining a second parameter value of the output signal;

generating a regulator signal as a function of the second parameter value; and

modifying the control signal as function of the regulator signal.

24. (New) The method of claim 23, wherein the second parameter value is at least one of an amplifier output voltage or a load current.